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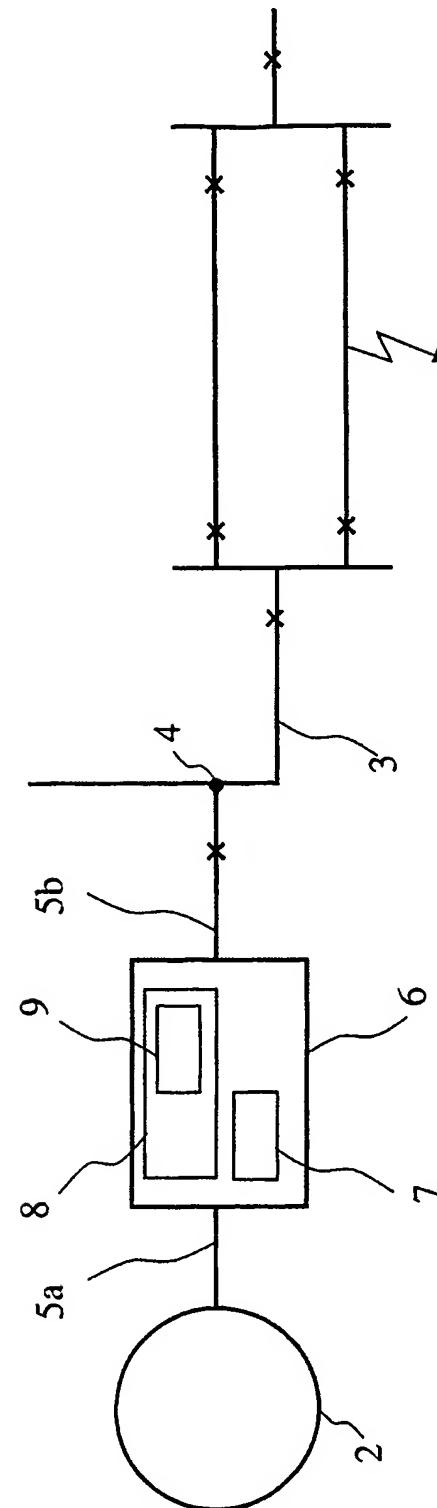


Fig. 1

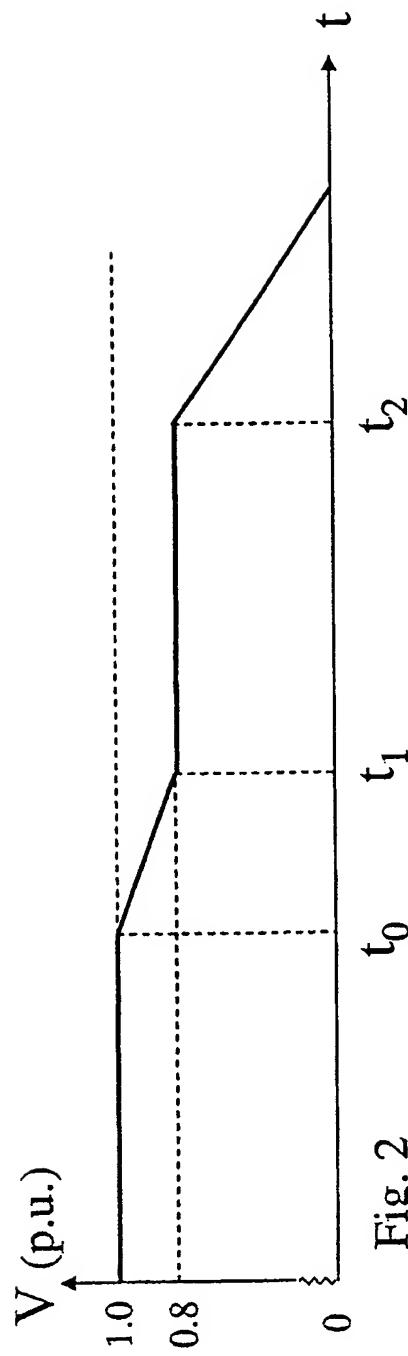


Fig. 2

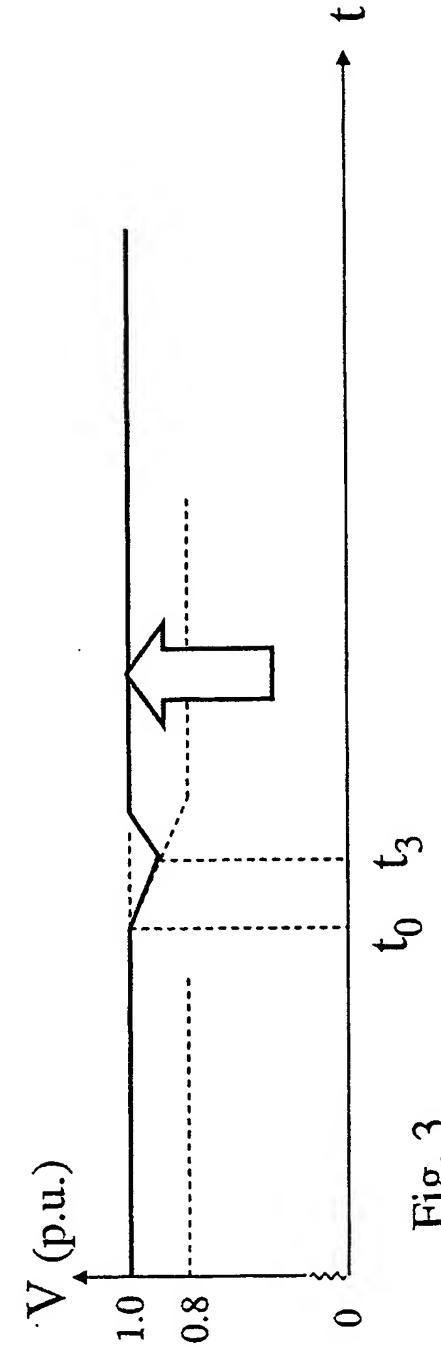


Fig. 3

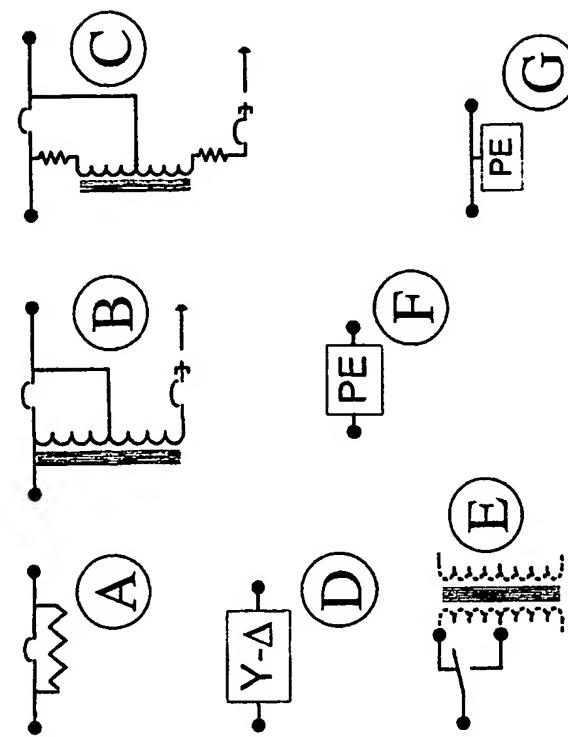


Fig. 5

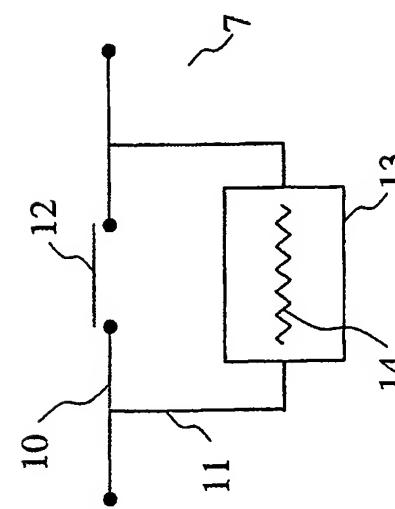


Fig. 4

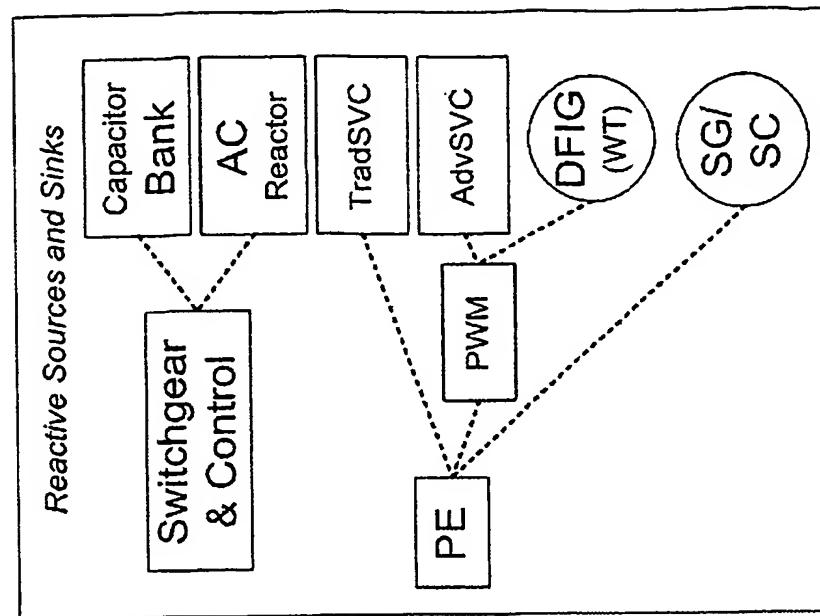
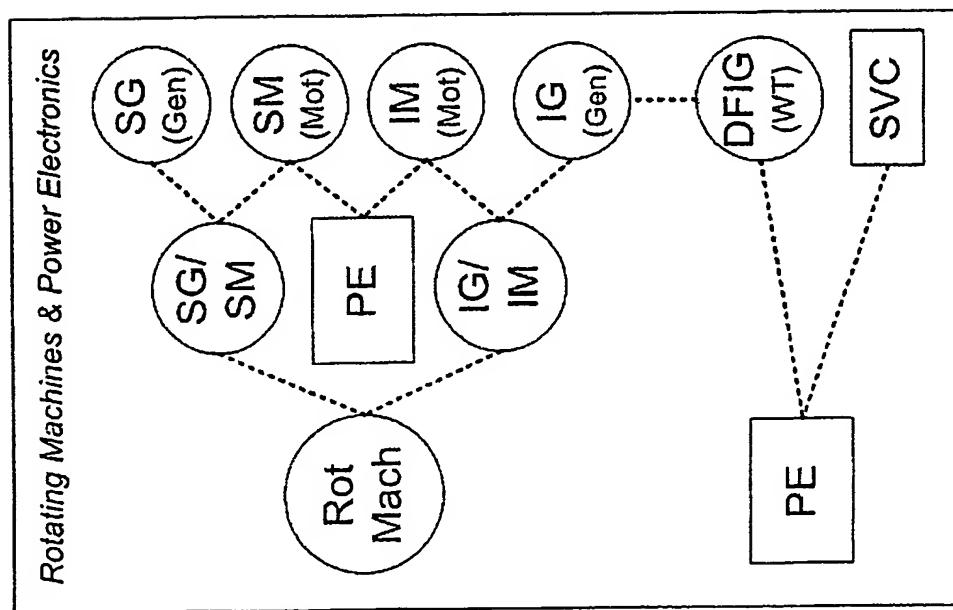
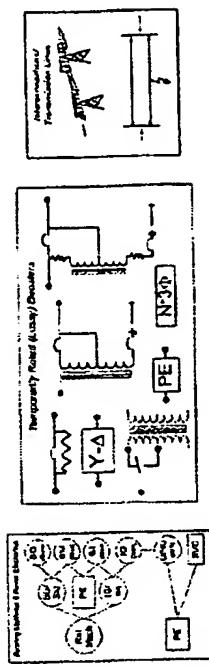


Fig. 6





		<i>I</i>	<i>Motors</i> Elect. to Mech. Conversion	<i>Motors/Generators</i>	<i>Generators</i> Mech. to Elect. Conversion
Non-synchronous Speed	2	IM/AM Induction Motors/ Asynchronous Motors	IM/AM Induction Machines/ Asynchronous Machines	IG/AG Induction Generators/ Asynchronous Generators	
Synchronous Speed	3	SM Synchronous Motors	SM Synchronous Machines "One Excitation Converter"	SG Synchronous Generators	
Dynamic Phase Shift	4	D+Q (Two field windings)	"Two Excitation Converters" "Excitation & Slip Power Converter"	D+Q (Two field windings)	
Variable Speed (ASDs)	5a Partial conversion systems	Partly-Rated ASDs	DFIG/DFSG (Double-Fed)		
	5b Total conversion systems	Partly-Rated ASDs	"Armature Power Converter"	DD, IS, ... (Fully-Rated)	
Power Electronics					

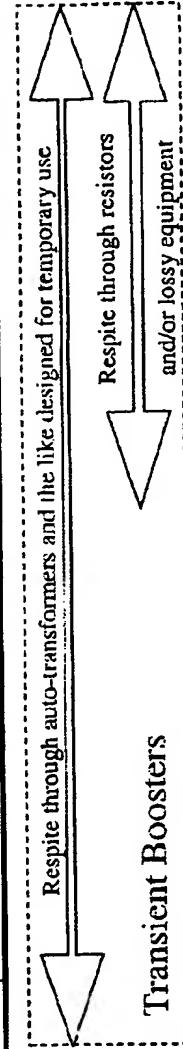
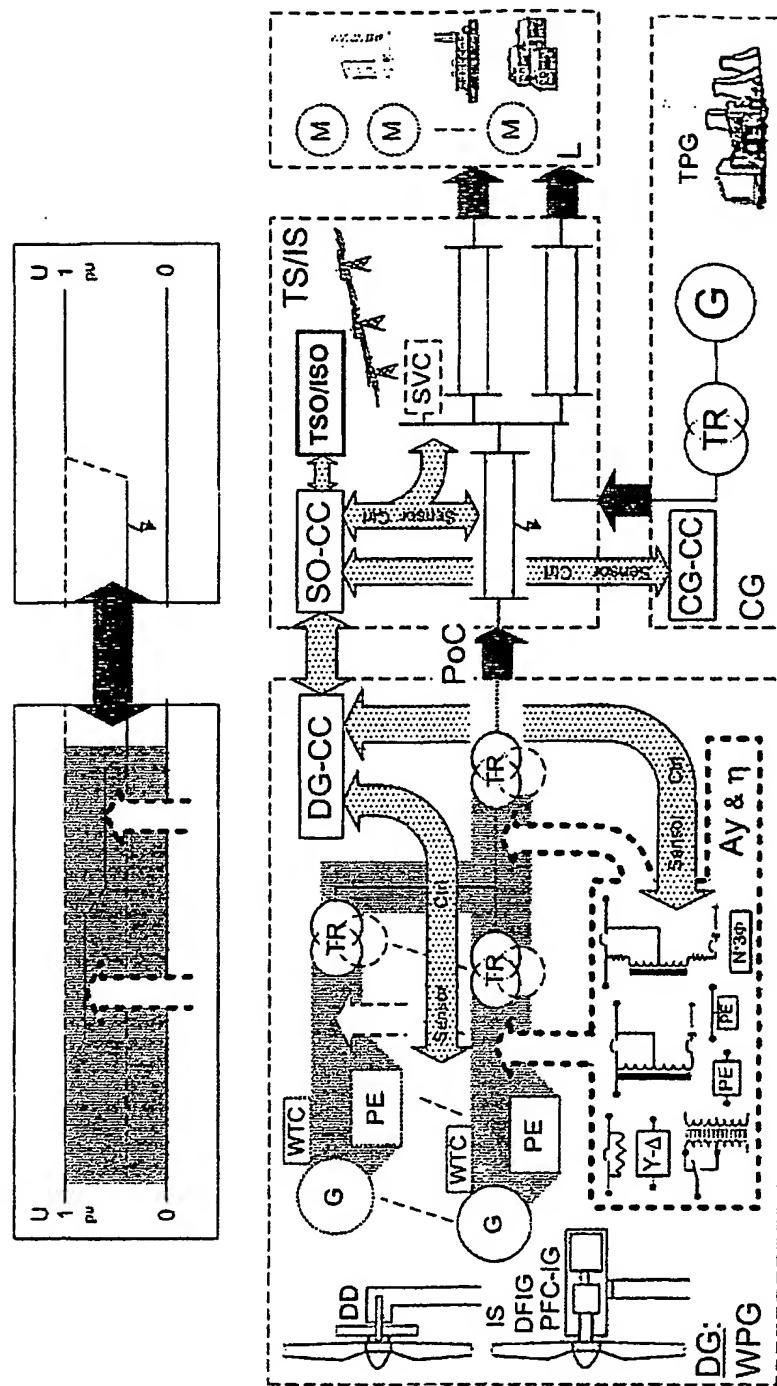


Fig. 7

Power Electronics Compensators (SVCs)		1 Inductor Character Reactive Power Consumption		2 Capacitor Character Reactive Power Production	
		AC Reactors Mechanically Switched Shunt Reactors (MSR)	AC Reactors+Capacitors Thyristor Controlled Shunt Reactors & Capacitors	AC Capacitors Mechanically Switched Shunt Capacitors (MSC)	AC Capacitors Thyristor Switched Shunt Capacitors, TSC
Step-wise Mechanically Switched	2	AC Reactors Mechanically Switched Shunt Reactors (MSR)	AC Reactors+Capacitors Thyristor Controlled Shunt Reactors & Capacitors	AC Capacitors Mechanically Switched Shunt Capacitors (MSC)	AC Capacitors Thyristor Switched Shunt Capacitors, TSC
Static VAr	3a Step-wise switched or electronically controlled	Thyristor Controlled/Switched Shunt Reactors (TCR/TSR)	Thyristor Controlled Shunt Reactors & Capacitors	Thyristor Controlled Shunt Capacitors, TSC	Thyristor Controlled Shunt Capacitors, TSC
Continuously variable	3b	AdvSVC, Statcom, SVC Light™, ..., Active Filters, UPFC, & other FACTS	AdvSVC, Statcom, SVC Light™, ..., Active Filters, UPFC, & other FACTS	SG/SC Synchronous Generators (Synchronous Compensators)	SG/SC Synchronous Generators (Synchronous Compensators)
Rotating Machines as VAr Compensators	4	(IM) (Induction Machines)	DFIG/DFSG Double-Fed Induction/ Synchronous Generators		

Fig. 8  
Transient Boosters

Boost through auto-transformers and the like designed for temporary use



Eig. 9

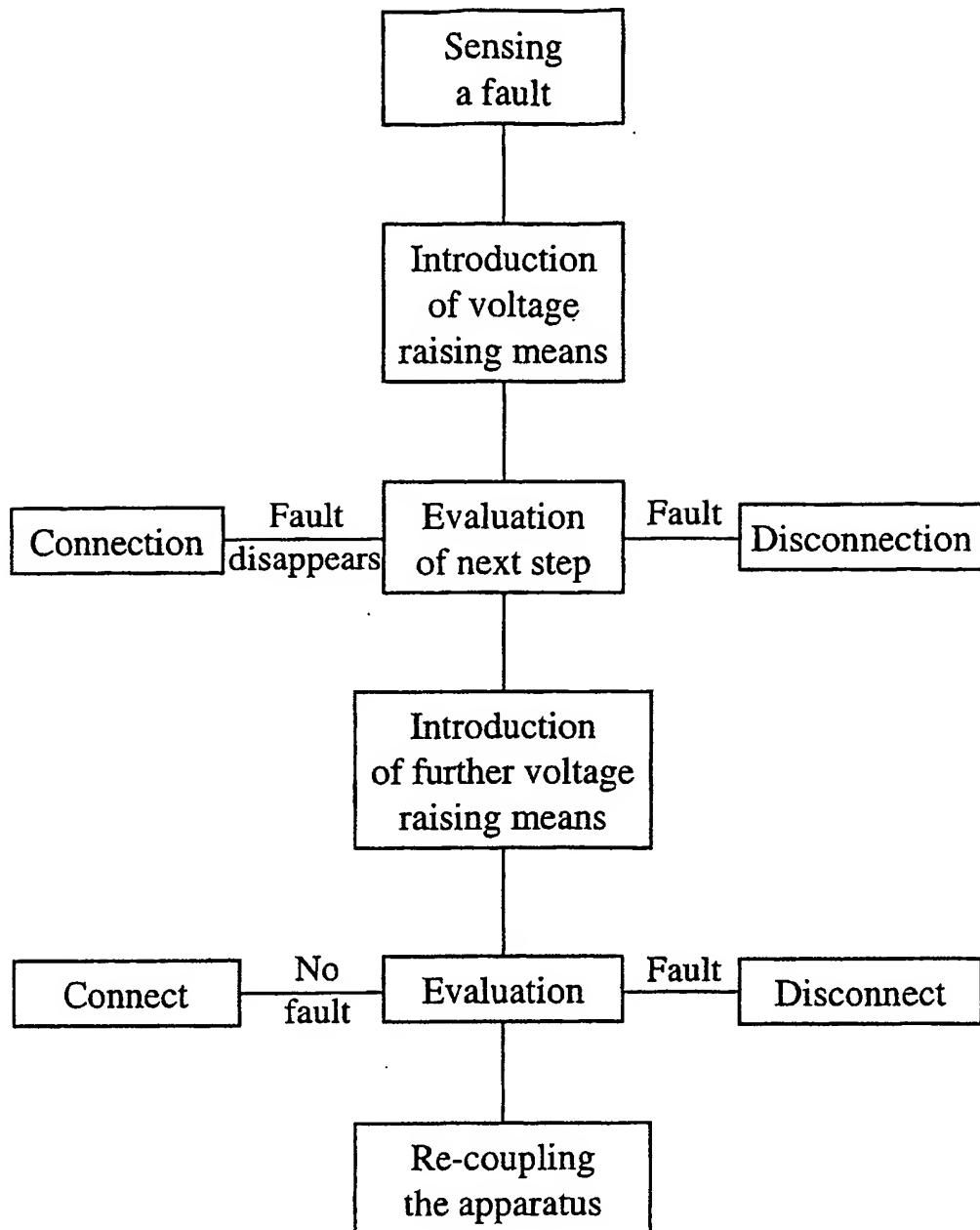


Fig. 10

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